CLAIMS

What is claimed is:

1   1.   An apparatus comprising:

2   a wireless transceiver to transmit and receive signals in accordance with a

3   first protocol to and from first other apparatuses of a first wireless network;

4   a wireless receiver to receive signals transmitted in accordance with a

·5   second protocol by second other apparatuses of a second wireless network; and

6   a controller manager coupled to the wireless transceiver and receiver to

7   control operation of the wireless transceiver based at least in part on one signaling

8   characteristic of said received signals from said second other apparatuses of the

9   second wireless network, to reduce interference with said second other apparatuses

10   of the second wireless network.

1   2.   The apparatus of claim 1, wherein said second protocol is a frequency

2   hopping protocol comprising a plurality of frequencies employed in accordance with

3   a pseudo random pattern, and the controller manager includes logic to ascertain the

4   pseudo random frequency hopping pattern using said received signals from said

5   second other apparatuses.

1   3.   The apparatus of claim 2, wherein the controller manager further includes

2   logic to predict when interference with said second other apparatuses of said

3   second wireless network will occur, based on said ascertained pseudo random

4   frequency hopping pattern.

1 4.   The apparatus of claim 1, wherein said second protocol is a constant

2 frequency protocol, and the controller manager includes logic to ascertain the

3 constant frequency using said received signals from said second other apparatuses.

1 5.   The apparatus of claim 4, wherein the controller manager further includes

2 logic to predict when interference with said second other apparatuses of said

3 second wireless network will occur, based on said ascertained constant frequency.

1 6.   The apparatus of claim 1, wherein the controller manager further includes

2 logic to suspend operation of said wireless transceiver to avoid interference with

3 said second other apparatuses of said second wireless network, whenever an

4 interference is predicted to occur.

1 7.   The apparatus of claim 1, wherein the controller manager further includes

2 logic to determine filtering to be employed, whenever an interference is predicted to

3 occur, to cancel interfering signals from said second other apparatuses.

1 8.   The apparatus of claim 7, wherein the controller manager includes logic to

2 determine a notch filter, inversely formed in accordance with transmit signals of said

3 second other apparatuses.

1 9.   The apparatus of claim 7, wherein the controller manager includes logic to

2 employ said filtering to cancel interfering signals of said second other apparatuses

3 of said second wireless network, whenever an interference is predicted to occur.
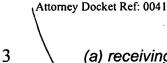
1 10.   *The apparatus of claim 1, wherein the controller manager further includes*

2 *logic to preemptively notify one or more of said first other apparatuses, an*

3 *interference is predicted to occur.*

1 11.   *The apparatus of claim 10, wherein the controller manager further includes*

2 *logic to preemptively notify said one or more of said first other apparatuses, a*

3 *selected one of suspending operation to avoid interference with said second other*

4 *apparatuses and applying filtering to cancel interfering signals from said second*

5 *other apparatuses.*

1 12.   *The apparatus of claim 1, wherein the controller manager further includes*

2 *logic to request one of said first other apparatuses to preemptively provide*

3 *notification of a predicted occurrence of an interference with said second other*

4 *apparatuses.*

1 13.   *The apparatus of claim 1, wherein the first protocol is a protocol selected*

2 *from a group consisting of 802.11, 802.11a, 802.11b, and Home RF, and the*

3 *second protocol is the Bluetooth protocol.*

1 14.   *The apparatus of claim 1, wherein the first protocol is the Bluetooth protocol,*

2 *and the second protocol is a protocol selected from a group consisting of 802.11,*

3 *802.11a, 802.11b, and Home RF.*

1 15.   *In a wireless apparatus having a wireless transceiver and a wireless receiver,*

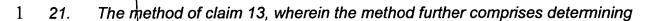2 *a method of operation comprising:*

3   *(a) receiving signals transmitted in accordance with a first protocol by first*

4   *other apparatuses of a first wireless network;*

5   *(b) determining at least one signaling characteristic of said received signals*

6   *from said first other apparatuses; and*

7   *(c) operating said wireless transceiver to transmit and receive signals in*

8   *accordance with a second protocol to and from second other apparatuses of a*

9   *second wireless network, based on said at least one determined signaling*

10   *characteristic of said received signals from said first other apparatuses, to reduce*

11   *interference with proximately located ones of said first other apparatuses of the first*

12   *wireless network.*

1   *16.   The method of claim 15, wherein said first protocol is a frequency hopping*

2   *protocol comprising a plurality of frequencies employed in accordance with a pseudo*

3   *random pattern, and the method further comprises ascertaining the pseudo random*

4   *frequency hopping pattern using said received signals from said first other*

5   *apparatuses.*

1   *17.   The method of claim 16, wherein the method further comprises predicting*

2   *when interference with said first other apparatuses of said first wireless network will*

3   *occur, based on said ascertained pseudo random frequency hopping pattern.*

1   *18.   The method of claim 15, wherein said first protocol is a constant frequency*

2   *protocol, and the method further comprises ascertaining the constant frequency*

3   *using said received signals from said first other apparatuses.*

1   *19.   The method of claim 18, wherein the method further comprises predicting*

2   *when interference with said first other apparatuses of said first wireless network will*

3   *occur, based on said ascertained constant frequency.*

1   *20.   The method of claim 15, wherein the method further comprises suspending*

2   *operation of said wireless transceiver to avoid interference with said first other*

3   *apparatuses of said first wireless network, whenever an interference is predicted to*

4   *occur.*

1   *21.   The method of claim 13, wherein the method further comprises determining*

2   *filtering to be employed, whenever an interference is predicted to occur, to cancel*

3   *interfering signals from said first other apparatuses.*

1   *22.   The method of claim 21, wherein the method further comprises determining a*

2   *notch filter, inversely formed in accordance with transmit signals of said first other*

3   *apparatuses.*

1   *23.   The method of claim 21, wherein the method further comprises employing*

2   *said filtering to cancel interfering signals of said first other apparatuses of said first*

3   *wireless network, whenever an interference is predicted to occur.*

1   *24.   The method of claim 15, wherein the method further comprises preemptively*

2   *notifying one or more of said second other apparatuses, an interference is predicted*

3   *to occur.*

1   25.   *The method of claim 24, wherein the method further comprises preemptively*

2   *notifying said one or more of said second other apparatuses, a selected one of*

3   *suspending operation to avoid interference with said first other apparatuses and*

4   *applying filtering to cancel interfering signals from said first other apparatuses.*

1   26.   *The method of claim 15, wherein the method further comprises requesting*

2   *one of said second other apparatuses to preemptively provide notification of a*

3   *predicted occurrence of an interference with said first other apparatuses.*

1   27.   *A collection of apparatuses comprising:*

2   *a first plurality of apparatuses equipped to communicate wirelessly in*

3   *accordance with a first protocol; and*

4   *a second plurality of apparatuses equipped to communicate wirelessly in*

5   *accordance with a second protocol, wherein at least one of the second plurality of*

6   *apparatuses is further equipped to receive signals transmitted in said first protocol,*

7   *and determine at least one signaling characteristics of said received signals*

8   *transmitted in accordance with said first protocol, and to reduce interference with*

9   *proximately located one or ones of said first plurality of apparatuses based on said*

10   *determined at least one signaling characteristics of said received signals transmitted*

11   *in accordance with said first protocol.*

1   28.   *The collection of apparatuses of claim 27, wherein the at least one of the*

2   *second plurality of apparatuses includes logic to predict an interference with said*

3   *first plurality of apparatuses is to occur.*

1   *29.*   *The collection of apparatuses of claim 27, wherein the at least one of the*

2   *second plurality of apparatuses includes logic to suspend transmit operation to*

3   *avoid interference with said first plurality of apparatuses, whenever an interference*

4   *with said first plurality of apparatuses is predicted to occur.*

1   *30.*   *The collection of apparatuses of claim 27, wherein the at least one of the*

2   *second plurality of apparatuses includes logic to applying filtering to cancel*

3   *interfering signals of said first plurality of apparatuses, whenever an interference*

4   *with said first plurality of apparatuses is predicted to occur.*

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